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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,413	12/05/2003	Setho Sing Fee	2269-4738.1US (00-1113.01)	9766
24247	7590	07/05/2005	EXAMINER	
TRASK BRITT P.O. BOX 2550 SALT LAKE CITY, UT 84110			CHAMBLISS, ALONZO	
			ART UNIT	PAPER NUMBER

2814

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/728,413

Applicant(s)

FEE ET AL.

Examiner

Alonzo Chambliss

Art Unit

2814

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 6-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/5/03, 5/11/05</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The amendment filed on 5/11/05 has been fully considered and made of record in the instant application.

Response to Arguments

2. Applicant's arguments with respect to claims 1-4 and 6-9 have been considered but are moot in view of the new ground(s) of rejection.

In regards to Bayan teaching a notch that separates at least two longitudinally spaced locations of any of the leads. Bayan teaches a notch located at 240 when cut would separate two longitudinally spaced locations of any of the leads in Fig. 7.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-4, 6-17, are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Bayan et al. (U.S. 6,399,415).

With respect to Claims 1-4, Bayan teaches each of a plurality of discretely defined leads 200 and including at least one lead having, a first bonding region (i.e. to

Art Unit: 2814

the left of the notch), a second bonding region (i.e. to the right of the notch), and a severance region (i.e. notch located at 240) located between the first bonding region and second region, the severance region being configured to facilitate separation of the first bonding region from the second bonding region (see col. 3 lines 8-38 and col. 4 lines 1-48; Figs. 3A, 3B, 4, 5, 6A-6F).

With respect to Claim 6, Bayan teaches a plurality of longitudinally arranged lead frames in the prior art Fig. 1A, each lead frame including an outer frame portion bearing a plurality of inwardly extending, cantilevered leads each lead of the plurality having thereon at least two longitudinally spaced locations separated by a severance region comprising a notch (i.e. located at 240) extending laterally across each lead 209 (see col. 3 lines 61-67, and col. 4 lines 1-67, and col. 5 lines 1-67; Figs. 1B3A, 3B, 4, 5, 6A-6F, 7, and 8).

With respect to Claims 7-10, Bayan teaches wherein each outer frame portion further bears a die paddle 207 substantially centered therein and a plurality of inwardly extending cantilevered leads is located on a plurality of sides (i.e. four sides) of each outer frame portion (see Figs. 1A, 1B, and 7).

With respect to Claims 11 and 12, Bayan teaches wherein the plurality of discretely defined leads is disposed about a peripheral outline (i.e. including peripheral edges) of the die paddle 207 (see Figs. 3A, 3B, 6C-6F, 7, and 8).

With respect to Claim 13, Bayan teaches an outer frame portion wherein the plurality of discretely defined leads is cantilevered and extends inwardly from the outer frame portion (see Fig. 7).

With respect to Claim 14, Bayan teaches a die paddle and at least one tie bar coupling the die paddle and the outer frame portion (see Fig. 6E, 6F, and 7).

With respect to Claim 15, Bayan teaches each of the at least two longitudinally spaced locations of each lead is configured as a bonding region (see Figs. 3A, 3B, 4, 5, 6E, and 6F)

With respect to Claim 16, Bayan teaches the plurality of inwardly extending, cantilevered leads are disposed about a peripheral outline of the die paddle see Fig. 6E, 6F, and 7).

With respect to Claim 17, Bayan teaches each lead frame further including at least one tie bar electrically coupling the die paddle and the outer frame portion (see Fig. 6E, 6F, and 7).

The prior art made of record and not relied upon is cited primarily to show the product of the instant invention.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not

Art Unit: 2814

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

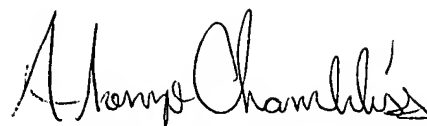
Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (571) 272-1927.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-7956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system Status information for published applications may be obtained from either Private PMR or Public PMR. Status information for unpublished applications is available through Private PMR only. For more information about the PMR system see <http://pair-dkect.uspto.gov>. Should you have questions on access to the Private PMR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC_Support@uspto.gov.

Application/Control Number: 10/728,413
Art Unit: 2814

Page 6

A handwritten signature in black ink, appearing to read "Alonzo Chambliss". The signature is fluid and cursive, with the first name "Alonzo" and last name "Chambliss" clearly distinguishable.

Alonzo Chambliss
Primary Patent Examiner
Art Unit 2814

AC/June 27, 2005